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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/606,938	06/27/2003		Chan-Jung Park	1594.1258 4442	
21171	7590	03/11/2005		EXAMINER	
STAAS &	HALSEY	LLP	JOLLEY, KIRSTEN		
	SUITE 700 1201 NEW YORK AVENUE, N.W.				PAPER NUMBER
WASHING			1762		

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/606,938	PARK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kirsten C Jolley	1762				
The MAILING DATE of this communication apperent of the Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply sepecified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 28 De	ecember 2004.					
2a)⊠ This action is FINAL . 2b)□ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) 1,4-10,12-17 and 19-23 is/are pending 4a) Of the above claim(s) 11 and 18 is/are without 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,4-10,12-17 and 19-23 is/are rejected 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	drawn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the option of the correction of the option of the correction of the option of th	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa	te atent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

1. This application contains claims 11 and 18 drawn to an invention nonelected with traverse in the paper of September 9, 2004. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Response to Arguments

- 2. The claim objections and 35 USC 112, 2nd paragraph rejections have been withdrawn in response to Applicant's amendments and arguments, respectively.
- 3. Applicant's arguments filed December 28, 2004 have been fully considered but they are not persuasive.

With respect to the rejections over Yamaguchi et al., Applicant argues that Yamaguchi et al. teaches three total layers - a body, an oxide film, and a photocatalytically active semiconductor, whereas the present invention recites two layers - a body and non-sized metal particles deposited thereon. The Examiner notes that the claims are not limited to the number of layers that are applied. Applicant's broad "comprising" language is inclusive of additional process steps and/or materials. The transitional term "comprising," which is synonymous with "including," "containing," or "characterized by," is inclusive or open-ended and does not exclude additional, unrecited elements or method steps. *Moleculon Research Corp. v. CBS, Inc.*,

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793 F.2d 1261, 229 USPQ 805 (Fed. Cir. 1986); *In re Baxter*, 656 F.2d 679, 686, 210 USPQ 795, 803 (CCPA 1981); *Ex parte Davis*, 80 USPQ 448, 450 (Bd. App. 948).

With respect to the rejections over Nishida et al., Applicant argues that Nishida et al. teaches a fiber composition having fiber characteristics, wherein the fibers have fine metallic particles embedded therein, but does not teach or suggest a method of providing antibacterial activity to a surface of a body using non-sized metal particles. Applicant argues that the behavior of a coated body is different from the behavior of a fibrous grouping with embedded metal particles, therefore Nishida et al.'s invention is different from the present claimed invention. The Examiner notes that Applicant's claims are not limited as to the type of body used as the substrate, and do not exclude the use of fibers as substrates. Further, it is the Examiner's position that Nishida et al.'s resulting fiber samples containing fine silver particles will necessarily have an antibacterial activity because it is well known that silver is antibacterial.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 4-9, 12-16, and 19-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamaguchi et al. (US 5,753,322).

The claims remain rejected for the reasons discussed in the prior Office action, as well as for the reasons discussed above in section 3. The limitations of drying and thermally treating at a

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temperature of 50-150 C are rejected for the same reasons discussed with respect to claims 2-3 in the prior Office action.

6. Claims 1, 4-8, 10, 12-15, 17, 19-22, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nishida et al. (US 5,897,673).

The claims remain rejected for the reasons discussed in the prior Office action, as well as for the reasons discussed above in section 3. The limitations of drying and thermally treating at a temperature of 50-150 C are rejected for the same reasons discussed with respect to claims 2-3 in the prior Office action.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kirsten C Jolley whose telephone number is 571-272-1421. The examiner can normally be reached on Monday to Thursday and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kirsten C Jolley
Primary Examiner

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